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Notice of Allowability	Application No.	Applicant(s)	
	09/974,748	BINA ET AL.	
	Examiner	Art Unit	
	Nguyen Ngo	2663	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the special amendment of 4/19/2006.
2. ☒ The allowed claim(s) is/are 1,5-15,17 and 19-23.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

This communication is in response to the special amendment of 4/19/2006. All changes made to the Claims have been entered. Accordingly, Claims 1, 5-15, 17, 19-23 are currently pending in the application.

Allowable Subject Matter

1. Claims are 1, 5-15, 17, 19-23 allowed.
2. Claims 1 is allowable over the prior art of record since the cited references taken individually or in combination fail to particularly disclose **the first multi-channel echo canceller including a tone disabler circuit for detecting the presence of an echo canceller disabling tone within each channel and producing said logical signal in response thereto;** It is noted that the closest prior art Pruet et al. (US Statutory Invention Registration #H1, 884) shows a system for transferring echo cancellation data, comprising an echo cancellation controller module which is connected to a echo cancellation element and another echo cancellation element. However the stated prior art fails to disclose or render obvious to the above underline limitations as claimed.
3. Claims 7 is allowable over the prior art of record since the cited references taken individually or in combination fail to particularly disclose **monitoring a state condition of echo cancellation, including detecting the presence of an echo canceller disabling tone in each channel; producing a logical signal indicating whether**

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echo cancellation is enabled on each channel in response to detecting the presence of an echo canceller disabling tone in each channel; It is noted that the closest prior art Pruet et al. (US Statutory Invention Registration #H1, 884) shows a system for transferring echo cancellation data, comprising an echo cancellation controller module which is connected to a echo cancellation element and another echo cancellation element. However the stated prior art fails to disclose or render obvious to the above underline limitations as claimed.

4. Claims 9 is allowable over the prior art of record since the cited references taken individually or in combination fail to particularly disclose **including detecting the presence of an echo canceller disabling tone, on each channel, the first configured for producing a logical signal indicting whether echo cancellation is enabled on each channel in response to detecting the presence of an echo canceller disabling tone.** It is noted that the closest prior art Pruet et al. (US Statutory Invention Registration #H1, 884) shows a system for transferring echo cancellation data, comprising an echo cancellation controller module which is connected to a echo cancellation element and another echo cancellation element. However the stated prior art fails to disclose or render obvious to the above underline limitations as claimed.

5. Claims 13 is allowable over the prior art of record since the cited references taken individually or in combination fail to particularly disclose **a controller in communication with the logic, the controller producing a logical signal that is a**

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function of a first logical signal and a second logical signal produced by the processor in response to an echo canceller disabling tone within the telecommunication signal, the logical signal being used to cause the switching unit to output the processed telecommunication signal or the telecommunication signal unprocessed by the signal processing function. It is noted that the closest prior art Pruet et al. (US Statutory Invention Registration #H1, 884) shows a system for transferring echo cancellation data, comprising an echo cancellation controller module which is connected to a echo cancellation element and another echo cancellation element. However the stated prior art fails to disclose or render obvious to the above underline limitations as claimed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen Ngo whose telephone number is (571) 272-8398. The examiner can normally be reached on Monday-Friday 7am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

N.N.

Nguyen Ngo

United States Patent & Trademark Office
Patent Examiner AU 2663
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RICKY Q. NGO
SUPERVISORY PATENT EXAMINER